

United States Environmental Protection Agency Region 9 Laboratory

1337 S. 46th Street Building 201 Richmond, CA 94804

Date: 9/15/2017

Subject: Analytical Testing Results - Project R17E01

SDG: 17243B

From: Peter Husby, Director

EPA Region 9 Laboratory

EMD-3-1

To: Janice Chan

Enforcement Division, Air Section

ENF-2-1

Attached are the results from the analysis of samples from the **Catalytic Converter Analysis FY2017** project. These data have been reviewed in accordance with EPA Region 9 Laboratory policy.

A full documentation package for these data, including raw data and sample custody documentation, is on file at the EPA Region 9 Laboratory. If you would like to request additional review and/or validation of the data, please contact Eugenia McNaughton at the Region 9 Quality Assurance Office.

If you have any questions, please ask for Peter Husby, the Lab Project Manager at (510)412-2300.

Electronic CC: Matt Salazar, ENF-2-1

Andrew Zelling, Nathan Dancher, ENF-2-1 Elfego Felix, Kingsley Adeduro, ENF-2-1

Analyses included in this report:

Platinum Group Metals by XRF



United States Environmental Protection Agency Region 9 Laboratory

1337 S. 46th Street, Building 201, Richmond, CA 94804 Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager: Janice Chan Enforcement Division, Air Section SDG: 17243B

Project Number: R17E01 75 Hawthorne Street Reported: 09/15/17 10:12

Project: Catalytic Converter Analysis FY2017 San Francisco CA, 94105

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
LWGGCGL04HA007789	1708088-01	Solid	08/29/17 00:00	08/31/17 11:25



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Sample Results

Analyte		eanalysis / Extract F	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID:	1708088-01							Soli	d - Sample	ed: 08/29/17 00:00
Sample ID:	LWGGCGL04HA007789							XRF Ana	lvsis of Plat	inum Group Metals
Platinum			1,200		160	mg/kg	B17H152	09/12/17	09/13/17	XRF
Palladium			5,600		40	"	"	"	"	XRF
Rhodium			1,400		40	"	"	"	"	XRF

Quality Control

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD Limit
Batch B17H152 General Biology - Platinum Group Metals by XRF XRF Analysis of Platinum							Analyzed: 09/13/17		
Blank (B17H152-BLK1)									
Platinum	ND	U	160 n	ng/kg					
Palladium	ND	U	40	"					
Rhodium	ND	U	40	"					
Blank (B17H152-BLK2)									
Platinum	ND	U	160 n	ng/kg					
Palladium	ND	U	40	"					
Rhodium	ND	U	40	"					
Reference (B17H152-SRM1)									
Platinum	730		n	ng/kg	697		105	85-115	
Palladium	280			"	326		86	85-115	
Rhodium	51			"	51.2		100	85-115	
Reference (B17H152-SRM2)									
Platinum	1,200		n	ng/kg	1130		103	85-115	
Palladium	230			"	233		98	85-115	
Rhodium	140			"	135		106	85-115	
Reference (B17H152-SRM3)									
Platinum	1,700		n	ng/kg	1780		98	85-115	
Palladium	280			"	279		101	85-115	
Rhodium	350			"	338		102	85-115	
Reference (B17H152-SRM4)									
Platinum	750		n	ng/kg	697		107	85-115	
Palladium	290			"	326		88	85-115	
Rhodium	53			"	51.2		104	85-115	
Reference (B17H152-SRM5)									
Platinum	1,200		n	ng/kg	1130		105	85-115	
Palladium	230			"	233		100	85-115	
Rhodium	140			"	135		105	85-115	
Reference (B17H152-SRM6)									
Platinum	1,700		n	ng/kg	1780		98	85-115	
Palladium	280			"	279		101	85-115	
Rhodium	360			"	338		106	85-115	



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Project Number:R17E0175 Hawthorne StreetReported:09/15/17 10:12Project:Catalytic Converter Analysis FY2017San Francisco CA, 94105

Qualifiers and Comments

U Not Detected

NR Not Reported

RE1, RE2, etc: Result is from a sample re-analysis.

VIN Number	Engine Family	SAMPLE ID	Catalyst Type	Substrate Len.	Substrate Dia.	Substrate Vol.	Substrate Area	Cells	CPSI
				(cm)	(cm)	(cm³)	(in²)	#	
LWGGCGL04HA007789	HCQHS.0981HS	1708088-01	Honeycomb	3.00	4.00	37.7	1.95	798	409

VIN Number	Engine Family	SAMPLE ID	Pt	Pd	Rh	Ratio	Active Material
			mg/Kg	mg/Kg	mg/Kg	Pt:Pd:Rh	Loading (g/ft3)*
LWGGCGL04HA007789	HCQHS.0981HS	1708088-01	1166	5557	1389		48
						1:5:1	



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

OFFICE OF ENFORCEMENT AND COMPLIANCE ASSURANCE

I, Janice Chan	of USERA	hereby certify I
Name	Business/Age	ency
removed the following item;	Exhaust system	I marked the item with:
VIN or ESN: LW GGCGL	.04HA007789	
The item is from Entry No.: _	9AR - 8282069-4 Date	Removed: 8/29/2017
From a: 2017	HISUM MATORS Corp.	CK 100-5
Year	Make M	fodel
Allegedly covered by USEPA	Engine Family: HCQH.	S.0981HS
2/2	Engine Far	mily
I further certify on $8/30$, I secured the descri	bed item prior to shipping it.

CHAIN OF CUSTODY						
Released By:	Date and Time	Received By:	Date and Time	Remarks		
Name F-GON2ACEZ Organization	8/30/17/000 Seal Intact? Y,N, Comment	Name Janice Chan Organization USEPA	8/8e/17 (215 Seal Intact? Y,N, Comment			
Signature A cycle Name		Signature Same				
Janice Chan Organization USEPA Signature	Seal Intact? Y,N, Comment	Organization USEPA Signature	Seal Intact? Y,N, Comment			
Name	Ť.	Name				
Organization	Seal Intact? Y,N, Comment	Organization	Seal Intact? Y,N, Comment			
Signature		Signature				
Name		Name				
Organization	Seal Intact? Y,N, Comment	Organization	Seal Intact? Y,N, Comment			
Signature		Signature				
Name		Name				
Organization	Seal Intact? Y,N, Comment	Organization	Seal Intact? Y,N, Comment			
Signature		Signature	1 2			

Version: July 2015

Richmond, CA 94804

U.S. Environmental Protection Agency Region 9 Richmond Laboratory

Sample Receipt Checklist

Note in WO memo any items outside acceptable limits.

Project No: RITEQ Work Order No(s)	:1708088	Date: 08/31/17 by	<u> </u>
CUSTODY SEALS Are Intact?			X N/A- None
TEMPERATURE 22 °C Within Acceptable Range? (If preservation is "store Measured by: X IR thermometer Provided Temp Blank was	cool at 4°C," use 0-6°C for accepta Probe thermometer inserte not used because	d in provided temp. blank	Ambient OK
Check if applies:	□ Still cooling (sampled toda) □ Delivery Delay		
SAMPLE CONTAINERS Are Intact? Check if applies and identify sample IDs in con Bottle/Jar/Vial broken Other	nments: □ Cap broken or loose	☐ Insufficient sample amount	
CHAIN OF CUSTODY COC forms are present? COC forms are complete and consistent with Check if applies: Not relinquished	sample labels?	b∀Yes □ No	
TAT and analyses match TDF or scheduling? Check if applies: □ Preliminary Results Samples are received within hold times? □ E All shipping and sample containers are according to the sample containers.	□ Rush Request xpires today		
PRESERVATION / FILTRATION Is Req If yes, continue below. If no, mark N/A for the f	uired?		ar and an artist and artist are artists and artists are artists and artists are artists and artists are artists and artists are artists are artists are artists and artists are also artists are artis
Samples were preserved and/or filtered in field If no, check if applies: Analyst to filter and/or filtration are could yes, preservation and/or filtration are could yes, field-preserved samples (non-VOA views).	or preserve □ Sample Receiver prectly identified on samples	ving to preserve (see page 2) s?	X N/A
Metals: pH <2 \square HNO3 Sulfide: Ferrous Iron: pH <2 \square HCI Cyanide: TOC/DOC: pH <2 \square H2SO4/H3PO4 (HCI is not allowed for Ammonia /NO3/NO2/TKN /Phosphorus: pH <2 \square	or available instrumentation [i.e., problem		
FOLLOW-UP / COMMENTS / UNUSUAI	CHARACTERISTICS (DBSERVED (for example, sa	mple is pink):